2011-04-27 Wednesday Morning Notes

Wednesday, April 27, 2011 8:34 AM

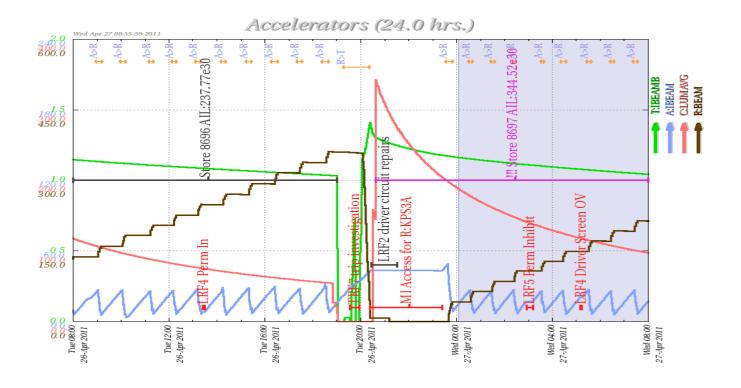
Stacking and Transfers

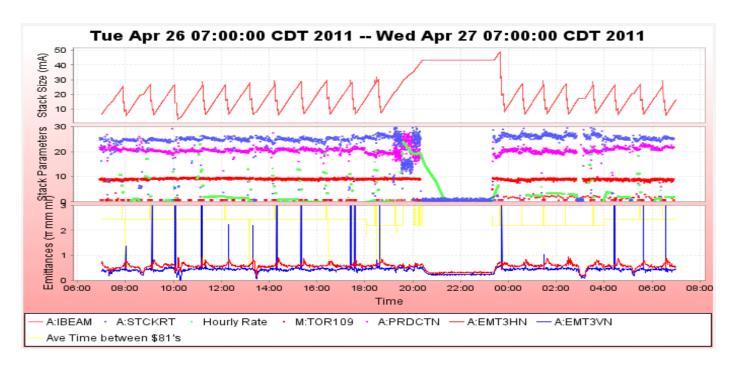
- Stacked 24.9mA/hr with a production of 20.0 pbars/Mp and 8.18 Tp on target
- Unstacked 493E10 in 61 transfers over 20 sets with an overall efficiency of 96.2%.
 - o Remove transfer 24293 (4/27/11 23:39, 50mA) and we get 96.3%

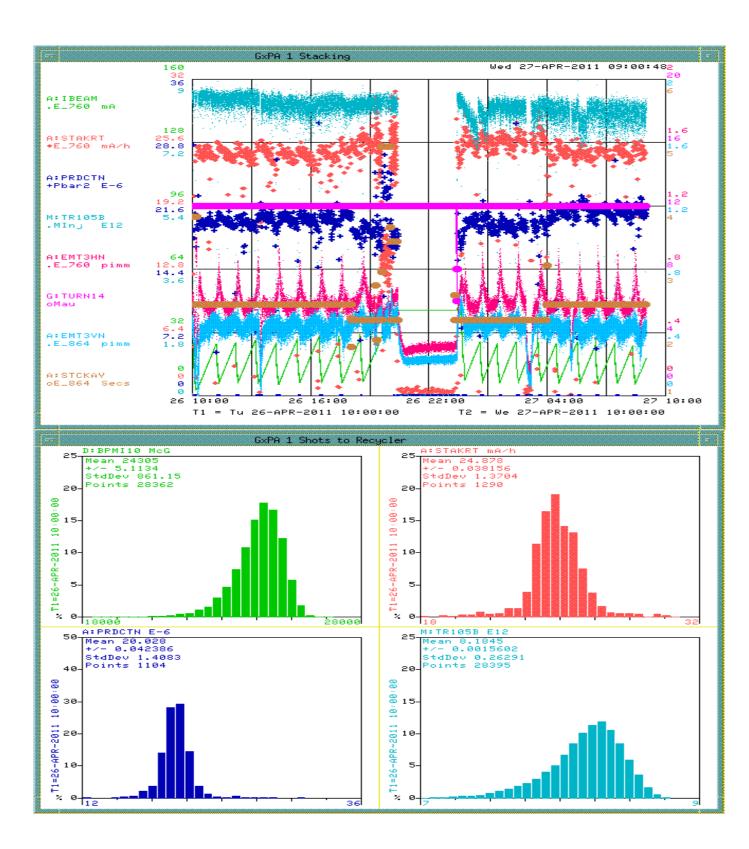
Numbers

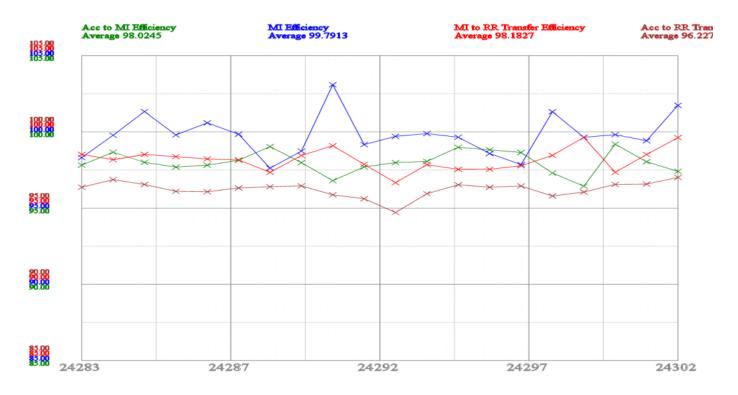
- Stacking
 - Pbars stacked: 474.55 E10Time stacking: 20.98 Hr
 - o Average stacking rate: 22.62 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 31257
 - Number of pulses with beam: 29858Fraction of up pulses was: 95.52%
- The uptime's effect on the stacking numbers
 - o Corrected time stacking: 20.04 Hr
 - Possible average stacking rate: 23.68 E10/Hr
 - Could have stacked: 496.78 E10/Hr
- Recycler Transfers
 - o Pbars sent to the Recycler: 476.15 E10
 - Number of transfers : 59
 - o Number of transfer sets: 20
 - Average Number of transfer per set: 2.95
 - o Time taken to shoot including reverse proton tuneup: 00.21 Hr
 - o Transfer efficiency: 95.72%
- Other Info
 - o Average POT: 8.19 E12
 - Average production: 19.41 pbars/E6 protons

Plots









Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Ti	me	sampled on \$91	22 Number _21_A:I BEAMB sampled on \$94 (A:BEA	Unstacked (mA)	23 Number _22_R:B EAMS (R:BEA ME0[0]) pre xfer	Column 24 Number _23_R:B EAM (R:BEA ME0[1]) post zfer, E10	Stashed		Acc to MI Eff	Acc to MI2 Eff		Tran sfers	Sets	5 Number_ 4_Acc Horizont	6 Number _5_Acc Yertical Emittan	Column 8 Number _7_Acc Longitu dinal Emittan ce
	Totals =>				493.70			474.74	96.16%	98.09%	97.87%	96.00%	61	20	5.7778	4.1316	1.9622
	Daily Average =>				493.70			474.74					61	20			
24302	Wednesday, April 27, 2011	8:20	25.70	6.07	22.17	213.52	234.67	21.49	96.91%	97.83%	98.88%	96.73%	3	1	5.991	4.07	1.982
24301	Wednesday, April 27, 2011	7:26	27.10	6.59	23.02	192.19	214.12	22.21	96.49%	98.20%	97.38%	95.63%	3	1	5.691	4.158	1.967
24300	Wednesday, April 27, 2011	6:27	26.21	5.83	22.86	170.92	192.75	22.09	96.65%	99.22%	98.71%	97.93%	3	1	6.005	3.965	1.932
24299	Wednesday, April 27, 2011	5:31	27.41	6.35	23.60	148.97	171.36	22.66	96.03%	96.89%	96.41%	93.41%	3	1	5.706	4.063	1.938
24298	Wednesday, April 27, 2011	4:27	26.69	6.25	22.99	127.50	149.37	22.09	96.09%	97.72%	99.17%	96.91%	3	1	5.791	4.251	1.969
24297	Wednesday, April 27, 2011	3:33	26.29	7.34	21.62	107.14	127.79	20.86	96.51%	98.43%	96.83%	95.30%	3	1	5.985	4.408	2.024
24296	Wednesday, April 27, 2011	2:24	27.31	6.78	23.11	85.49	107.50	22.24	96.21%	98.36%	97.40%	95.80%	3	1	5.943	4.311	1.995
24295	Wednesday, April 27, 2011	1:28	26.89	6.65	22.78	63.88	85.72	21.99	96.51%	98.52%	98.45%	96.99%	3	1	5.955	4.341	2.002
24294	Wednesday, April 27, 2011	0:35	27.59	6.84	23.34	41.85	64.08	22.37	95.82%	98.35%	98.03%	96.41%	3	1	5.864	4.421	1.969
24293	Tuesday, April 26, 2011	23:39	49.48	8.23	44.93	0.33	42.09	42.43	94.43%	97.72%	97.26%	95.05%	4	1	6.139	4.509	1.945
24292	Tuesday, April 26, 2011	18:33	30.30	7.40	25.47	337.35	361.27	24.42	95.88%	97.88%	97.23%	95.17%	3	1	6.044	4.441	1.965
24291	Tuesday, April 26, 2011	17:28	28.46	6.60	24.43	315.90	338.87	23.43	95.93%	97.33%	99.62%	96.96%	3	1	5.73	4.122	1.963
24290	Tuesday, April 26, 2011	16:25	30.03	6.62	25.86	292.48	317.07	24.97	96.59%	98.24%	97.35%	95.64%	3	1	5.738	4.165	1.949
24289	Tuesday, April 26, 2011	15:20	29.02	6.87	24.66	269.97	293.38	23.77	96.39%	99.15%	97.55%	96.72%	3	1	5.763	4.07	1.945
24288	Tuesday, April 26, 2011	14:15	27.10	5.91	23.58	248.26	270.69	22.74	96.43%	98.42%	98.07%	96.51%	3	1	5.7	3.819	1.942
24287	Tuesday, April 26, 2011	13:12	28.34	6.33	24.56	225.67	248.98	23.62	96.19%	97.71%	98.26%	96.00%	3	1	5.679	3.965	1.961
24286	Tuesday, April 26, 2011	12:11	27.08	6.48	23.16	204.24	226.27	22.30	96.28%	97.70%	97.09%	94.86%	3	1	5.778	4.32	1.98
24285	Tuesday, April 26, 2011	11:13	26.45	6.36	22.61	183.20	204.76	21.82	96.51%	98.06%	99.22%	97.30%	3	1	5.741	4.176	1.977
24284	Tuesday, April 26, 2011	10:04	27.10	3.18	25.19	159.60	183.71	24.34	96.64%	98.56%	98.46%	97.05%	3	1	4.501	3.078	1.913
24283	Tuesday, April 26, 2011	9:02	27.14	5.88	23.77	137.29	159.94	22.90	96.33%	97.90%	96.67%	94.64%	3	1	5.812	3.979	1.926